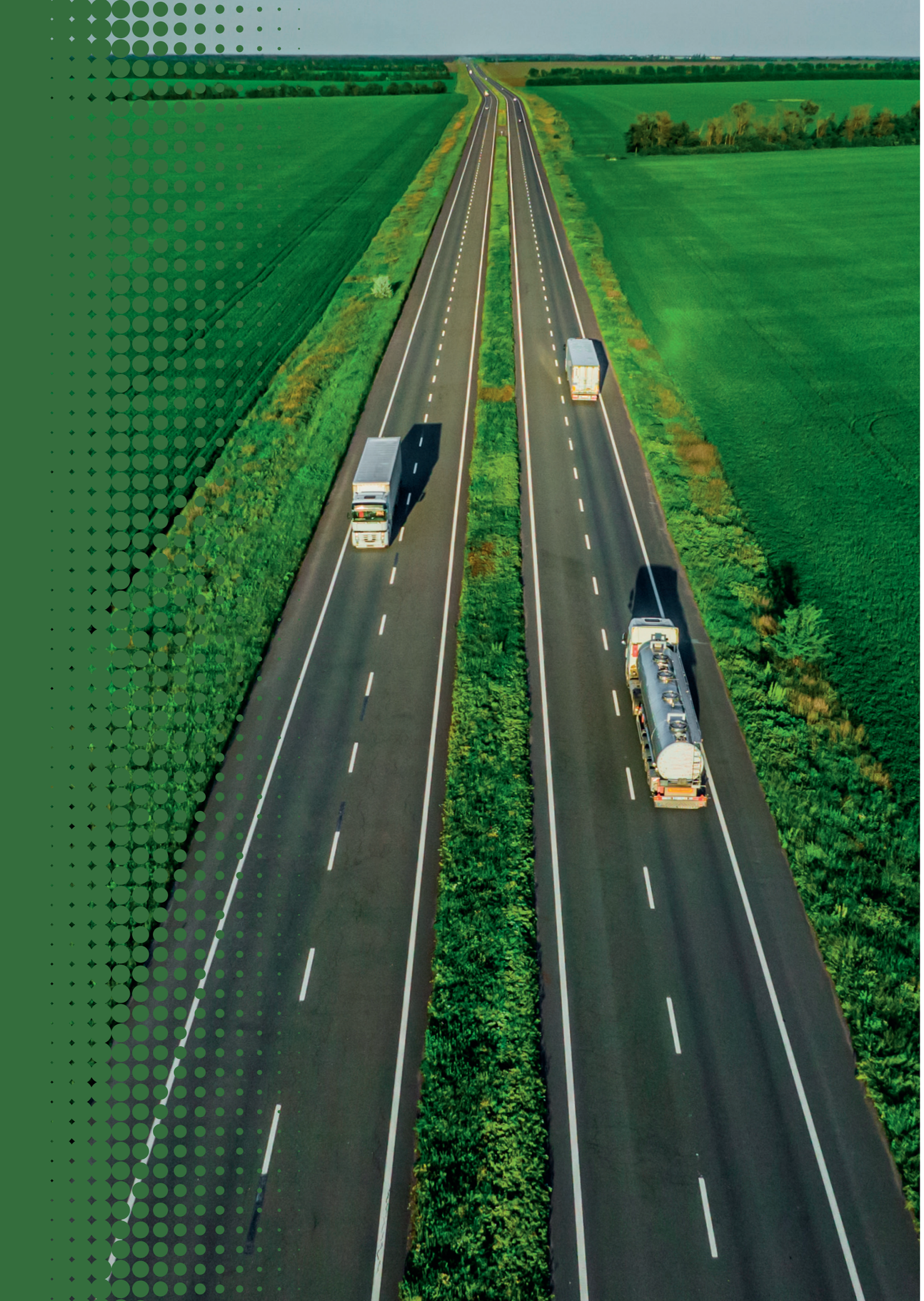
regaco
renewable gas commitment

Complete, dependable renewable gas compressors



regaco – who we are

regaco is complete, dependable, and renewable gas compressors

We provide everything from consultancy, calculation, planning and risk assessment to the final establishment of complete turn-key biogas filling stations for biogas-gas driven vehicles.

We are proud to be among Scandinavia's leading competence environments within filling stations for CBG, CNG, LBG and LNG.

We are a strong and experienced partner for every firm, municipality, and other organisations requiring the secure delivery of sustainable and climate-friendly fuels for tranport.

Vision

regaco aims to be Europe's leading supplier of high-quality products and solutions within the production, distribution, and use of green gases. Our goal is to create a future in which green gases play a central role in the energy mix. We contribute to the target of reducing CO2 emissions from energy production and heavy transport by 70% by 2030.

Mission

regaco provides components, equipment, and services for biogas filling stations, biogas upgrading and liquefaction plants for agricultural, energy, and transport companies.

regaco is involved throughout the entire process, from concept to construction including 24/7 service, with standardized and innovative solutions of high quality, focusing on competitive total costs.

NORDKAP by regaco – renewable gas compressor stations

The **regaco** NORDKAP concept is hard mechanics in a soft shell. This shell consists of a movable insulated house, in which complete plants can be prefabricated and moved out to the installation site. This results in a swift l commissioning of the plant as well as a minimum of assembly time at the installation site. Furthermore, the need for expensive civil works on site is minimized and concrete foundations are eliminated.

The filling stations are designed and constructed in accordance with DS/EN16923 (CBG stations) and DS/EN16924 (LBG) and other local legislations.movable insulated house, in which complete plants can be prefabricated and moved out to the installation site. This results in a swift l commissioning of the plant as well as a minimum of assembly time at the installation site. Furthermore, the need for expensive civil works on site is minimized and concrete foundations are eliminated.

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DESIGN

From the very beginning we closely cooperate with stake-holders ensuring a design that fits our customers needs.

HANDOVER

Pressure-testing, leak-testing and comissioning. Fully functional and approved by 3rd party and authorities.

IMPLEMENTATION

We offer complete installation and mounting – and we won't leave until we are done. By using local contractors, we ensure local know-how is closeby.

AFTER-SALES

24/7/365 support and service hotline. Critical spareparts on stock, and trained local contractors that are ready to assist.

Innovative and renewable biogas filling stations

INNOVATIVE REFUELING
regaco has a great focus on innovation of both existing and new solutions.

TOTAL COST OF OWNERSHIP
Our main focus is on the TCO of our stations. All stations are built for long term operation, with long service intervals ensuring a low total cost of ownership and minimal downtime.

HEAVY DUTY MACHINERY
All our equipment is made for continous operations 8.600 hours/year.

DATA-DRIVEN OPERATIONS
All our stations are continously monitored and data is used to further improve operations based on customer behaviour.

HIGH DEPENDABILITY
All vehicles using our stations are being filled been filled. We are proud to say that have a dependabiliy rate to date above 99.9%.

BUILT FOR HARSH WEATHER
Our stations are built for Scandinavian weather conditions and comes in corrosion-resistant materials ensuring a long lifetime of +20 years.

Nordkap Mikro

Nordkap Mini

Nordkap Maxi

Our products and services

regaco's filling stations are complete filling stations in accordance with the newest legislation in the field. This ensures a safe filling station with a long service life. **regaco**'s filling stations are delivered in a NORDKAP house where everything is pre-installed and prepared before shipment to the installation site. Filling equipment and site layout is tailered to your demands.

BIOGAS FILLING STATIONS (CBG)

We have a wide range of offerings for compressed biogas. Both slow-filling and public fast-filling ranging from 2 to +90 vehicles.

LBG/LNG FILLING STATIONS

Turn-key LBG and L-CBG filling stations. With a long reference-list of stations in operation throughout Europe.

EMPTYING OF FLAK/CONTAINERS

For areas outside the natural gas grid – we have developed a FLAK/Container system that enables emptying of trailers to under 15 bar g, hence lowering logistics- and container costs.

DEEP KNOW-HOW AND CONSULTING

We have some of the most skilled personell within our field and offer to assist in both planning and excecution of biogas-related projects.

Technical specifications

NORDKAP MIKRO	MIKRO-15
Number of compressors	1
Rated Power (kW)	15
Suction Pressure (barg)	0.1 - 0.3
Delivery pressure (barg)	250
Capacity (Nm3/h)	45
Capacity (Kg/h)	36
Integrated high pressure storage capacity (L)	–
Additional storage	Upon request
Dimensions m (L x W x H)	1.3 x 0.8 x 2.0

Station capacities	Avg. Refueling (kg)	M15
Small passenger car	15	29
Van 30	30	15
Small truck	60	8
Large truck	80	6
Bus or garbage truck	120	4
Refueling hours per day	*12*	
** 1 Nm3 biomethane = 0,8 kg*		

NORDKAP MINI	MINI-22	MINI-45
Number of compressors	1	1
Rated Power (kW)	22	45
Suction Pressure (barg)	0.5	0.5
Delivery pressure (barg)	250	250
Capacity (Nm3/h)	65	124
Capacity (Kg/h)	52	100
Integrated high pressure storage capacity (L)	–	–
Additional storage	Upon request	Upon request
Dimensions m (L x W x H)	2.75 x 2.3 x 2.75	2.75 x 2.3 x 2.75

Station capacities	Avg. Refueling (kg)	M22	M45
Small passenger car	15	42	80
Van 30	30	21	40
Small truck	60	11	20
Large truck	80	8	15
Bus or garbage truck	120	6	10
Refueling hours per day	*12*		
** 1 Nm3 biomethane = 0,8 kg*			

NORDKAP MAXI SLOWFILL	MAXI S45	MAXI S75	MAXI S90
Number of compressors	1*	1*	1*
Rated Power (kW)	45	75	90
Suction Pressure (barg)			
Delivery pressure (barg)	250	250	250
Capacity (Nm3/h)**			
Capacity (Kg/h)**			
Integrated high pressure storage capacity (L)	–	–	–
Additional storage	Upon request	Upon request	
Dimensions m (L x W x H)	2.75 x 2.3 x 2.75	2.75 x 2.3 x 2.75	

Station capacities	Avg. Refueling (kg)	M45	M75	M90
Small passenger car	15	94 - 195	164 - 510	198 - 642
Van 30	30	47 - 98	82 - 255	99 - 321
Small truck	60	24 - 49	41 - 127	50 - 161
Large truck	80	18 - 37	31 - 96	37 - 120
Bus or garbage truck	120	12 - 24	21 - 64	25 - 80
Refueling hours per day	*12*			
** 1 Nm3 biomethane = 0,8 kg*				

* Redundancy (extra compressor) available on request

** Capacity is affected by inlet pressure

NORDKAP MAXI FASTFILL	MAXI D90	MAXI D132	MAXI D160
Number of compressors	2*	2*	2*
Rated Power (kW)	2 x 90	2 x 132	2 x 160
Suction Pressure (barg)			
Delivery pressure (barg)	250	250	250
Capacity (Nm3/h)**			
Capacity (Kg/h)**			
Integrated high pressure storage capacity (L)	2400	2400	2400
Additional storage	Upon request	Upon request	Upon request
Dimensions m (L x W x H)	~17.5 x 3.5 x 3.7	~17.5 x 3.5 x 3.7	~17.5 x 3.5 x 3.7

Station capacities	Avg. Refueling (kg)	MAXI D90	MAXI D132	MAXI D160
Small passenger car	15	421 - 1.310	507 - 1.571	661 - 1.927
Van 30	30	211 - 655	253 - 786	331 - 963
Small truck	60	105 - 328	127 - 393	165 - 482
Large truck	80	79 - 246	95 - 295	124 - 361
Bus or garbage truck	120	53 - 164	63 - 196	83 - 241
Refueling hours per day	*10*			
** 1 Nm3 biomethane = 0,8 kg*				

* Available with one compressor only

** Capacity is affected by inlet pressure

Equipment and accessories

X = Standard equipment (included)
O = Optional
N/A = Not applicable or possible

Inlet system	MIKRO	MINI	MAXI SLOWFILL	MAXI FASTFILL
Gas connetion by flange	X	X	X	X
Gas filter		X	X	X
Pressure regulator	X	X	N/A	N/A

Compressor system	MIKRO	MINI	MAXI SLOWFILL	MAXI FASTFILL
Electric motor with soft start	X	X	X	X
Air cooling, over roof	X	X	X	X
Water cooling	N/A	N/A	O	O
Oil lubricated	N/A	N/A	X	X
Non-lubricated	X	X	O	O
Blow-down vessel	X	X	X	X
Emergency shutdown	X	X	X	X
Earthing/Ground of electrical equipment	X	X	X	X

Compressor house and control system	MIKRO	MINI	MAXI SLOWFILL	MAXI FASTFILL
ATEX plan (IEC 60079)	X	X	X	X
2D situation plan with escape route (ISO16923:2016)	X	X	X	X
Concrete foundation skid	O	O	X	X
Gastight control room, EX-Zone 2	N/A	O	O	O
PROFINET - Bus system	N/A	X	X	X
Siemens based PLC system		X	X	X
Touch panel and controls	X	X	X	X

Remote monitoring and control	MIKRO	MINI	MAXI SLOWFILL	MAXI FASTFILL
Automatic notification system on shutdown	N/A	X	X	X
Remote monitoring of system status	N/A	X	X	X
Remote alarm monitoring	N/A	X	X	X
Remote control of system*	N/A	X	X	X

* (not critical emergency functions)

High pressure gas storage	MIKRO	MINI	MAXI SLOWFILL	MAXI FASTFILL
Gas storage	O	O	O	X
3-bank priority panel	O	O	O	X
3-bank control system	O	O	O	X

Other options
Fast-fill dispensers
Payment terminals
Slowfill/Time-fill dispensers
Mass flow meter on discharge line

Selection of references

regaco has delivered renewable gas compressors, filling stations and equipment across a wide variety of countries.

As a **regaco** customer, you can expect to receive a turnkey solution where work closely with our customers from start to finish.

Everything is delivered as a complete package, and we do not leave the site until everything is functioning correctly and safely.

We help you reach your goal – we clearly explain what you need to do and what we do, from the first call until your bus, garbage truck, or distribution vehicle is fully fueled and ready to hit the road for the first time.

We get your system up and running quickly - typically within a maximum of 1-2 weeks from delivery to commissioning, thanks to modular construction, efficient logistics and planning.

Contact us

You can contact us at **regaco** in several ways – by phone, email, through physical visits, or on LinkedIn.

We don’t place a high importance on fixed opening hours or specific phone hours. Our focus is entirely on solving your problem, even outside of normal business hours. Problems tend to arise outside of office hours, and we have taken this into account.

Therefore, as a customer, you should be able to reach us when you need assistance.

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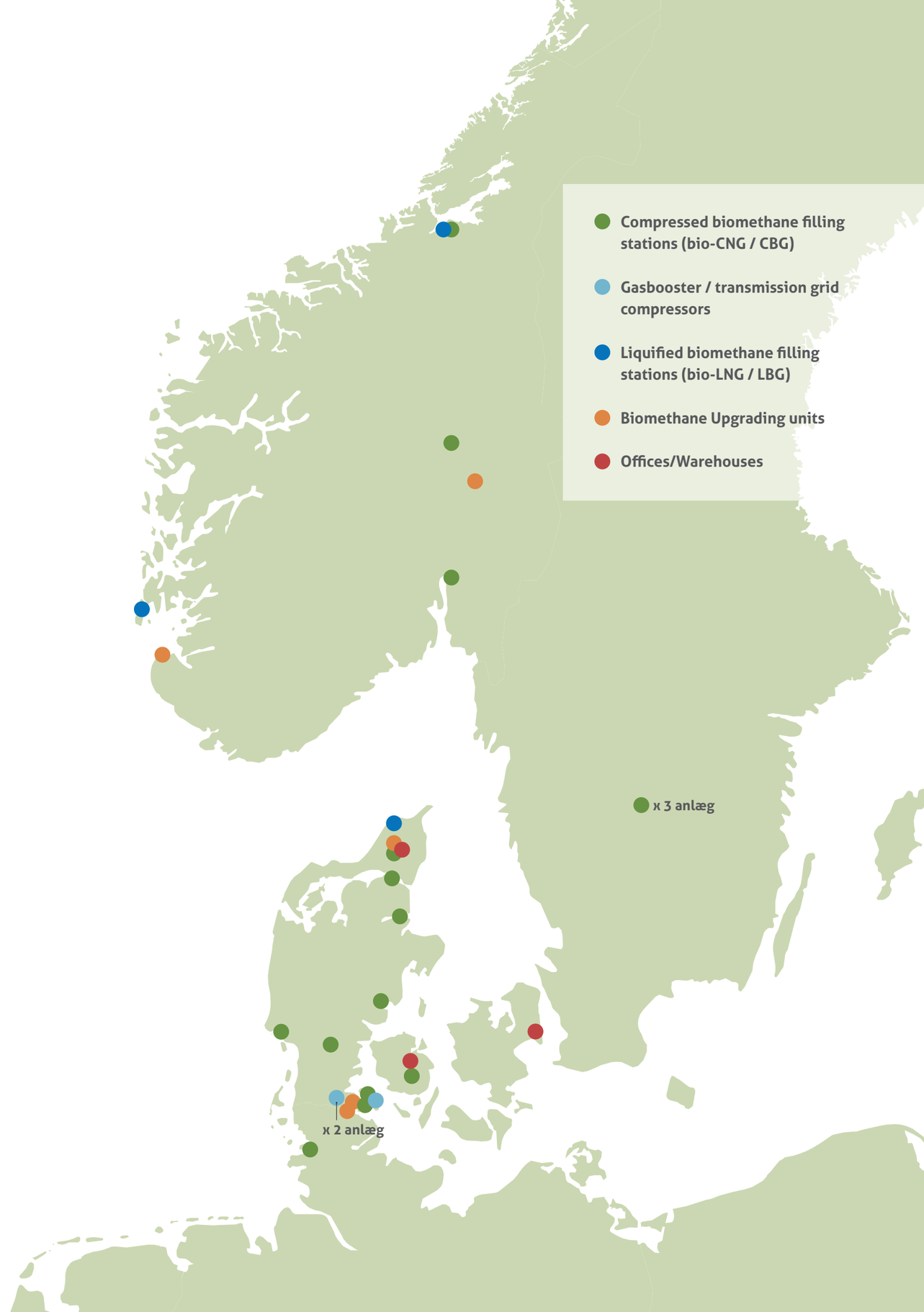

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