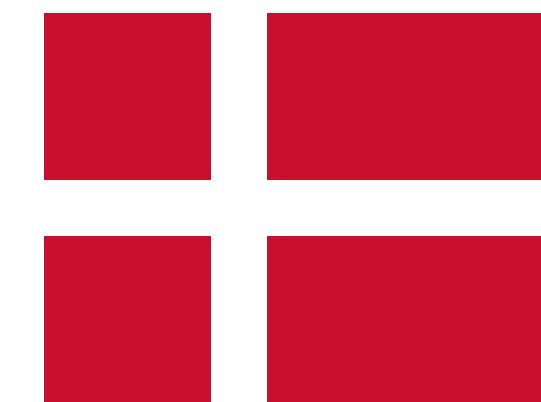


# Danish Regulation to Limit Methane Emissions from Biogas Production



Denmark / Europe

## PROJECT DESCRIPTION

- Denmark has a large biogas sector (160 plants) due to biomass resources from agriculture and state support schemes. Methane emissions from the biogas sector can negate the other climate benefits and decrease public support for biogas projects.
- To address methane emissions in the biogas sector, a Danish Energy Agency (DEA) study was conducted from 2019-2021 to measure 60 different biogas plants. The study revealed issues with valves and uncovered storage tanks with a leak rate of 2.5% from biogas production.
- In 2023, a Danish regulation came into effect with the goal of limiting the emissions of methane from these biogas facilities.

## PARTNERS INVOLVED IN PROJECT

- Danish Energy Agency (DEA)



## ANTICIPATED RESULTS

- The regulation requires yearly leak detection of biogas plants and reporting by third party controllers to the DEA, and implementation of a customized leak detection and repair program.
- The regulation enforces an emissions cap of 1% methane loss from upgrading equipment.
- An assessment for a cap on loss from combined heat and power (CHP) operations is underway.
- Failure to comply can lead to a cease in state support and fines.
- Planned measurement campaign in 2024 and 2025 to assess the effects of the regulation and provide a new emissions factor for national greenhouse gas reporting.

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