



## Emission from cogeneration and other gas fired appliances

- On-Site emission test
- Environmental documentation
- Fuel gas analysis

DGC performs emission measurements on gas engines, turbines and other gas fired appliances.

Measurements are performed on-site with mobile measuring equipment. The equipment is calibrated prior to the measurements and controlled after the measurements with certified calibration gases.

**On-line emission measurements**  
DGC holds a national accreditation for measuring the components listed below:

- O<sub>2</sub>            Oxygen
- CO            Carbon monoxide
- NO            Nitrogen oxide
- NO<sub>2</sub>          Nitrogen dioxide
- UHC          Unburned hydrocarbons

The operating conditions (load, temperature, etc.) are registered in connection with the emission measurements.

**Fuel gas analysis**  
Fuel gas samples can be taken for precise analysis of composition and heating value calculation etc.

DGC performs heating value analysis on-site with mobile gas chromatograph equipment or by analysis, if needed. Analysis can also be made with traditional gas chromatograph equipment in DGC's laboratory in Hørsholm.

DGC holds a national accreditation for natural gas analysis.

**Additional measurements/ services**  
DGC is experienced in taking samples and analysing additional components, such as:

- Aldehydes
- Ammonia
- Ketones
- Ethylene
- Lube oil
- Odour

DGC performs dilution (immission) calculations to find actual annual immission distribution for a specific geographic area. These calculations include the actual topographic conditions, buildings, local wind conditions etc. to enable calculation of immission load at specific spots.

#### References:

Since 1988 DGC has performed emission measurements of more than 500 cogeneration units and other gas fired appliances.

#### Prices and conditions

The services are offered on commercial terms. Fixed price and guaranteed time for reporting.

#### Price list (2010)

- Standard emission report 2.000 €
- Natural gas analysis (in connection with emission test) 300 €
- Emission calculation/mapping 1.200 €
- Biogas analysis, small 650 €
- Biogas analysis, incl. trace elements (n ≈ 20) 800 €

#### Not included:

Transport and handling.



#### Contact us

If you have any questions to the subjects described on the product sheet or other DGC services, you are welcome to contact us:

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#### Profile

DGC is a specialized consultancy and development company within energy and environment. DGC's main focus area is gas utilization.

DGC offers consultancy, measurements, laboratory testing, training and certification.

DGC has its head office and laboratory in Hørsholm, north of Copenhagen and a local office in Aalborg.