

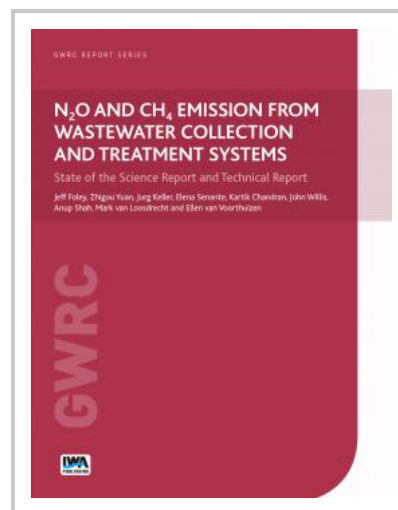
N₂O and CH₄ Emission from Wastewater Collection and Treatment Systems: State of the Science Report and Technical Report

In a world where there is a growing awareness of the possible effects of human activities on climate change, there is a need to identify the emission of greenhouse gases (GHG) from wastewater treatment plants (WWTPs). As a result of this growing awareness, governments started to implement regulations that require water authorities to report their GHG emissions. With these developments there exists a strong need for adequate insight into the emissions of N₂O and CH₄. With this insight water authorities would be able to estimate and finally reduce their emissions.

The overall objectives of the different research programs performed by partners of the GWRC members WERF (United States of America), WSAA (Australia), CIRSEE-Suez (France) and STOWA (the Netherlands) were:

- to define the origin of N₂O emission.
- to understand the formation processes of N₂O.
- to identify the level of CH₄ emissions from wastewater collection and treatment systems.
- to evaluate the use of generic emission factors to estimate the emission of N₂O from individual plants.

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