

A note from the IWA Task Group GHG

By Jose Porro, Chair of IWA Task Group on the use of water quality and process models for minimizing wastewater utility greenhouse gas footprints.

I would like to thank each of the members of the *IWA Task Group on the use of water quality and process models for minimizing wastewater utility greenhouse gas footprints*, all of whom helped drive the knowledge on modelling GHG emissions from wastewater systems forward and make this book possible. As Chair of the Task Group, I was able to work closely with each of these all-star researchers and practitioners, and as individuals, I can say they are just world class people. It was truly a pleasure working with them. The urgency for climate action was not nearly what it is today in 2010, when we founded the Task Group, yet each member dedicated days and weeks of their personal time to the Task Group effort, not because it was urgently needed, but because they knew that one day it would be, exemplifying vision and passion for advancing knowledge for a better planet. If this coordinated research effort had not started when it did, we would not be in the position that we are in today, providing guidance on how we can use this knowledge to take climate action today. So a sincere thank you to each of the following Task Group members: Ingmar Nopens (Ghent University), Co-Chair, for his master organizational and leadership skills, and his exceptional modelling knowledge to help drive things forward, make connections, and make things happen around key IWA events; Kartik Chandran (Columbia University) and Marlies Kampschreur (Waterboard Aa en Maas) for their pioneering work in the modern N₂O era and for their early, critical input on pathways and processes that should be considered in model structures; Peter Vanrolleghem (Université Laval), a true environmental engineering modeller, for his unmatched passion for modelling and generous hosting of the Task Group at ModelEAU at Université Laval; Imre Takacs (Dynamita), Andy Shaw (Black & Veatch), and Bernhard Wett (Dynamita) for their invaluable modelling knowledge and practical insights on how we should be modelling greenhouse gas emissions; Mathieu Sperandio (INSA Toulouse) for helping us to not forget about NO and helping to push the limit of what we can include in the models; Eveline Volcke (Ghent University) for not only contributing to the N₂O models but also models for the other critical Scope 1 emission source from wastewater treatment, methane; Lisha Guo for her measurement experience and razor sharp modelling skills; Xavi Flores-Alsina (DTU) and Lluís Corominas (ICRA) for jump starting the benchmarking work; Maite Pijuan (ICRA) for contributing both her valuable N₂O field measurements and pathways knowledge; Vanessa Parravicini (TU Wien) for her N₂O survey work and insights; Oriol Gutierrez (ICRA) and Keshab Sharma (The University of Queensland)

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