

Cobalt
water
GLOBAL

AI and machine learning for
sustainable urban water management

waternet
Climate Neutral

UK water industry sets out plans to be net zero by 2030

The UK water industry has set a target to become net zero by 2030.

06 March 2020

Rachel Cooper



The race to carbon neutrality for water utilities.

New York's landmark climate bill aims for net zero emissions by 2050

Phil Dzikiy · Jun. 19th 2019 11:59 am ET @phildzikiy

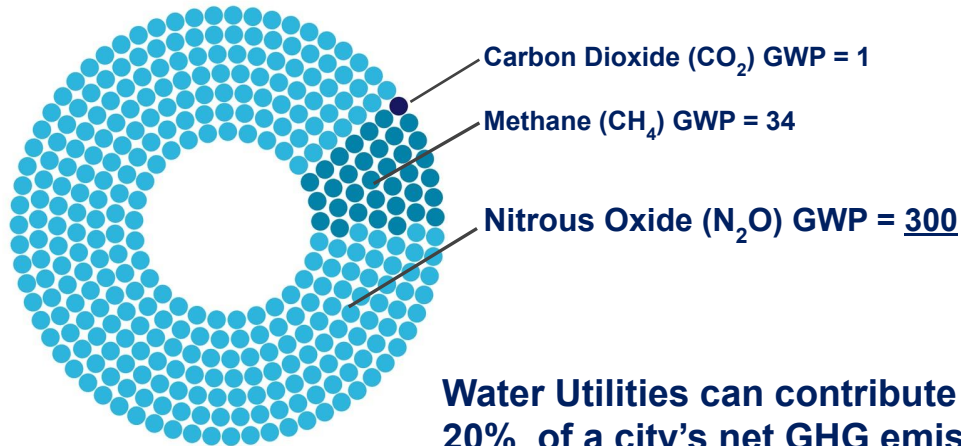
Melbourne Water's pledge



We are committed to reducing our carbon emissions to net zero by 2030.*

Nitrous Oxide (N_2O) emissions, can make up more than 80% of a Wastewater Treatment Plant's (WWTPs) carbon footprint

Global Warming Potential (GWP)



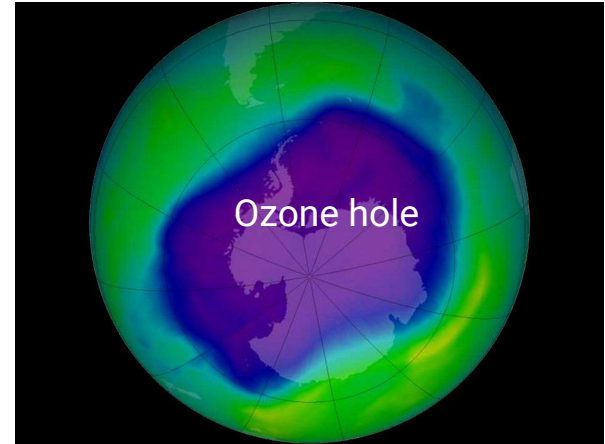
Reducing (not offsetting) N₂O saves money and better protects the Planet

Purchasing offsets or investing in renewable energy/energy efficiency to **offset N₂O emissions** is **more expensive** than actually reducing N₂O because of N₂O's high GWP, AND it **does not eliminate N₂O**

N₂O not only contributes to global warming, but it is also an **ozone depleter**

Offsetting might cancel out your N₂O emissions' GWP, but you are paying more money (30% in some cases), while also continuing to deplete the ozone layer

Offsetting only makes sense when there is no other practical solution, **which is no longer the case** for reducing N₂O from WWTPs because of Cobalt Water Global



Our Secret Weapon

The N2ORisk Decision Support System (DSS): uses AI to combine expert knowledge on N₂O and machine learning to quickly quantify emissions, optimize the treatment process, and eliminate N₂O

1

Facility Data

3

Dissolved Oxygen, ammonia, nitrate, pH, COD, etc

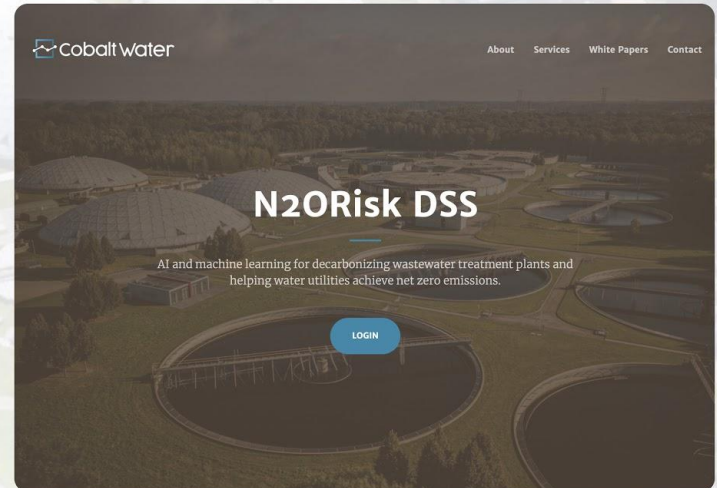
2

**N2O risk, emissions, mitigation
in real-time**



N2ORisk DSS

A tech product to scale our knowledge and impact



Our Solution Delivers Immediate Value and Carbon Mitigation

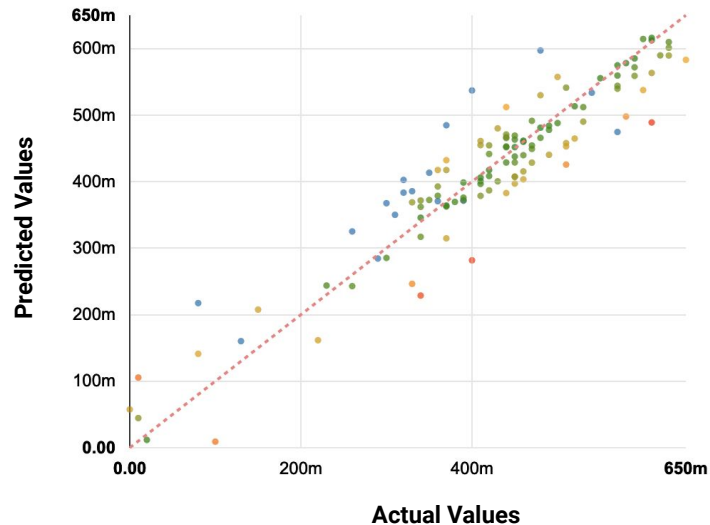
We are the **only** company in the world with a real solution to address N_2O in AI-based process optimization

In addition to reducing N_2O our solution provides

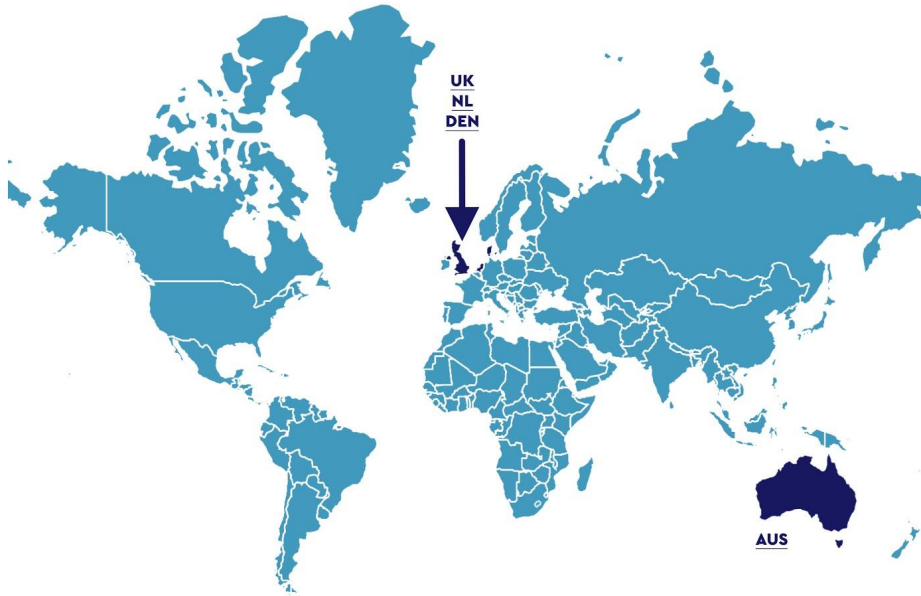
- Easy GHG Reporting
- WWTP performance monitoring
- GHG/Energy/Cost optimization powered by Machine Learning
- Future other AI powered solutions for Water Utilities along with other Industrial Water Needs

Our expertly trained and validated Machine Learning models are very accurate

- R2 Score of **~.9**



Our Traction



Where we are
working

6
facilities



- 6 pilots committed in 3 months, which includes enterprise client with **100 plus WWTPs**
- Recently finished Techstars: Demo Day Video [link](#)

N2ORisk DSS success in The Netherlands

Eindhoven RWZI | Overall WWTP GHG reduction:
40%

Land van Cuijk RWZI | Overall WWTP GHG reduction:
70%

Population:
1M

Projected Savings:
\$1M



Pricing Model

Annual Subscription Fee
(based on Products/Services needed)

+

1 x GHG Reduction Fee
(based on tons of CO₂e reduced)

Founders



Alex Wolf

CTO

Machine Learning and Software Expert. Recently part of successful AI startup exit.



Jose Porro

CEO

Top international N₂O mitigation expert. More than 20 years of water industry experience, PhD research on AI and N₂O.



Ingmar Nopens

Chief Advisor

COO of successful water modeling firm. World renowned process modeling researcher and professor.



www.cobaltwater-global.com

founders@cobaltwater-global.com

Carbon-neutral wastewater treatment is the future, our *N2ORisk DSS* is the future, AI for positive Climate Impact.
Connect with us and help us ensure clean carbon-free water now!