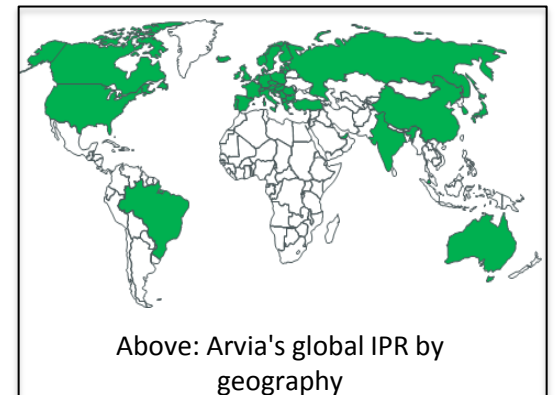


arvia
ORGANICS
DESTRUCTION

Introduction to Arvia Technology

An Introduction to Arvia

- Company formed in 2007 as a spin out from The University of Manchester
- 21 full time employees based at the Heath Business and Technical Park
- Active both in the water and nuclear sectors
- Global IPR in place (Europe, Asia & North America) – 21 patents granted



Above: Arvia's global IPR by geography

Arvia Technology

Adsorption

- Concentrates organics on a surface
- Achieves low discharge consents

Electrochemical Oxidation

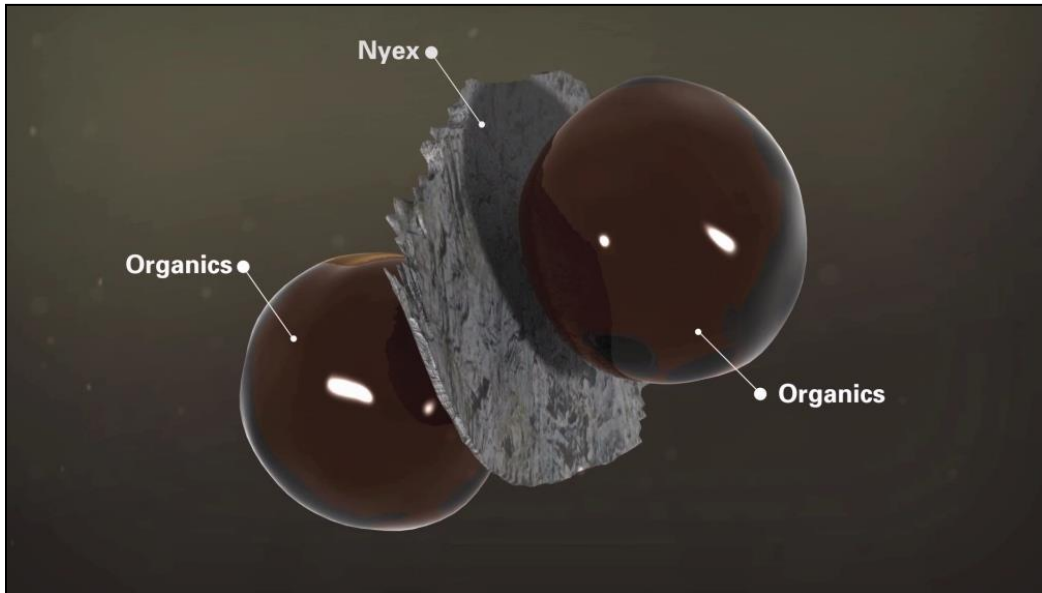
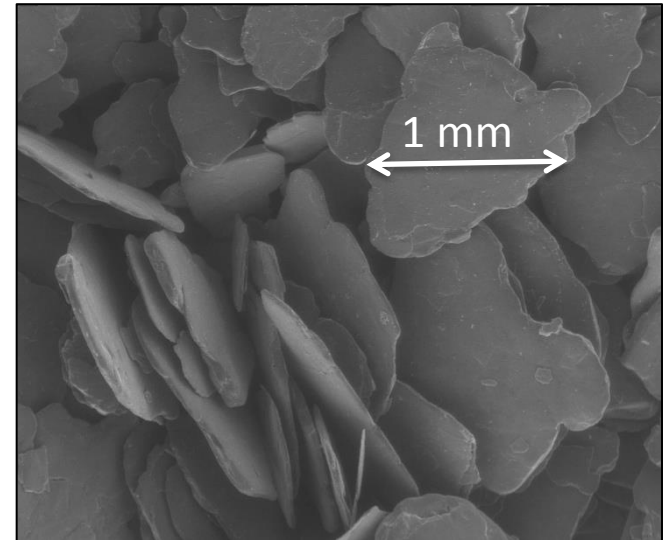
- Destruction of recalcitrant organics
- Chemical free, onsite operation @ room temperature and pressure



Energy efficient, trace level, organics destruction with no secondary waste

Nyex™

- Adsorbs organics / oils / micro-organisms
- High specific gravity
- Highly conductive
- Non-porous
- Proprietary material



Water Proposition

For target waste streams...

- low concentration
- toxic/hazardous/recalcitrant organics

...the technology delivers:

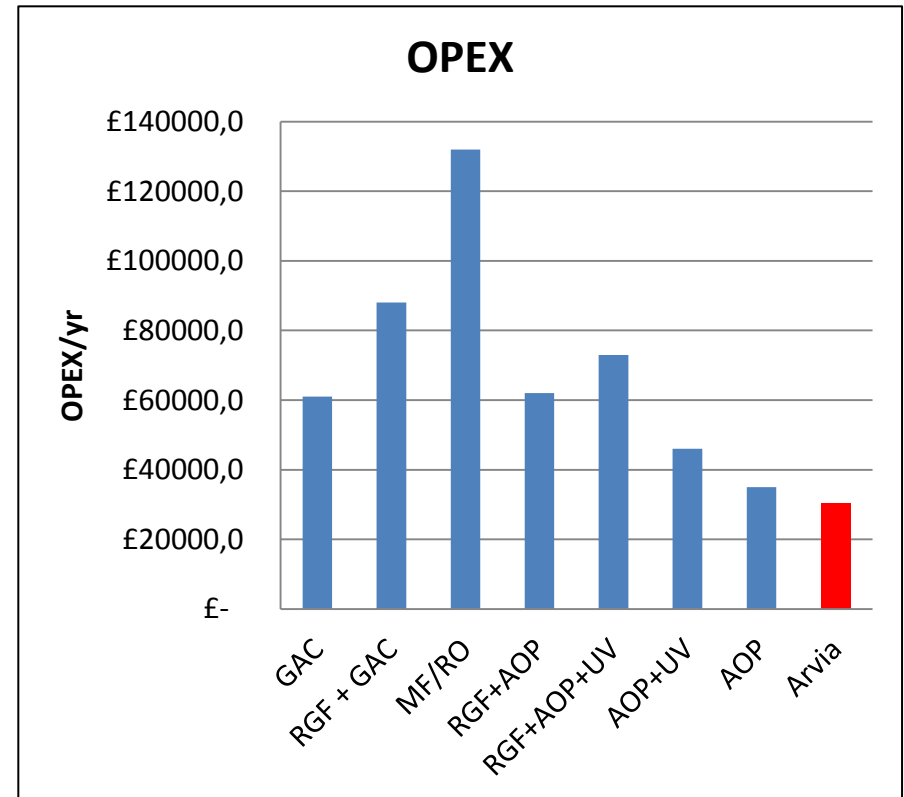
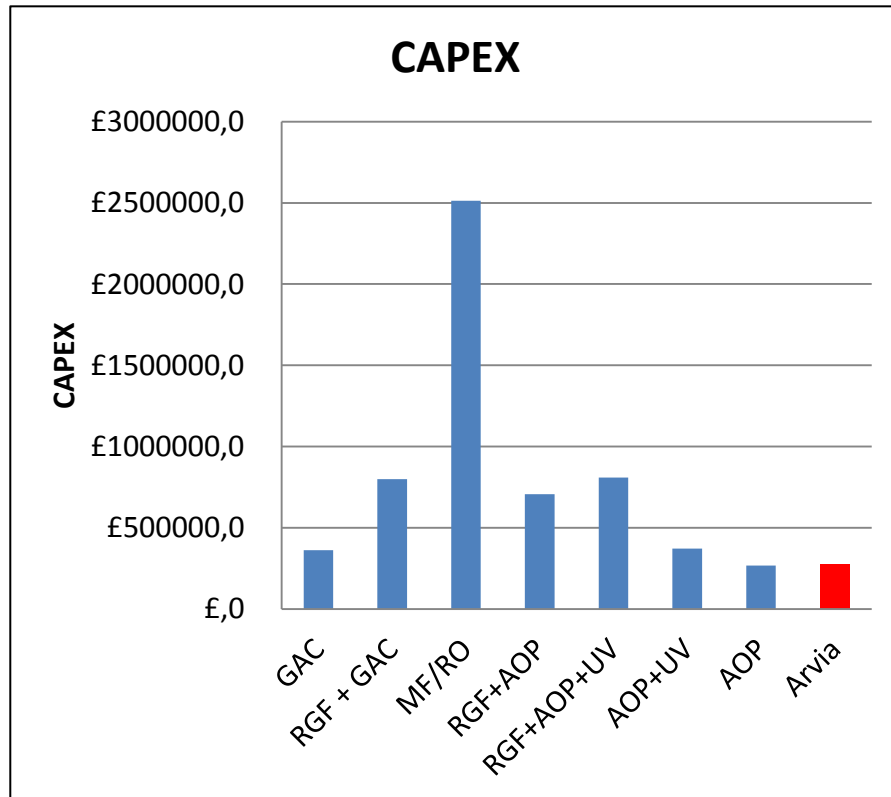
- *A complete water treatment solution*
 - Destroys organics
 - Disrupts microorganisms
 - Provides residual chlorination
- *a strong ROI*
 - No chemicals
 - No secondary waste
 - Energy consumption proportional to organic concentration
 - Adsorbent, Nyex, reused in process
- *a solution at source*
 - Mobile, skid mounted unit
 - Can be retrofitted into an existing plant/process stream



Gen II water unit is being lifetime tested

Water Proposition: OPEX & CAPEX

- The Arvia process – industry beating CAPEX and OPEX



Note:
Comparison is based on an organics concentration <30 ppm by COD and a plant size of 250 person equivalents.
Data for comparison compiled from UKWIR report 2010-11 and experimental data obtained by Arvia.

Commercial and Confidential

Conclusions

Arvia has combined adsorption with advanced oxidation using its patented material, Nyex

In the water industry this facilitates cost effective treatment of organics at the trace level including recalcitrant, stable organics

