



THE MODULAR  
**WATER** EXPERTS  
**TREATMENT**

**Offsite Construction Show**  
**Transportable Treatment Unit**  
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[www.ross-eng.com](http://www.ross-eng.com)



## Business Overview

- Part of the Global Energy Group



REVENUE



EMPLOYEES

**3,500+**  
EMPLOYEES

BACKING

**FORTUNE  
500**

Mitsui & Co Ltd (25%)

- Breadth of knowledge and experience
  - centre of excellence for water treatment and chemical dosing plants for over 20 years.
- Our Manufacturing & Off-site Assembly Capability is industry leading
  - 8500 m<sup>2</sup> manufacturing and fabrication (Over 80,000 m<sup>2</sup> available within the GEG).
- We are investing in continued growth

**Employees 488**

OTE, **£60m** 2017/18



# Modular TTU Product Delivery Initiative

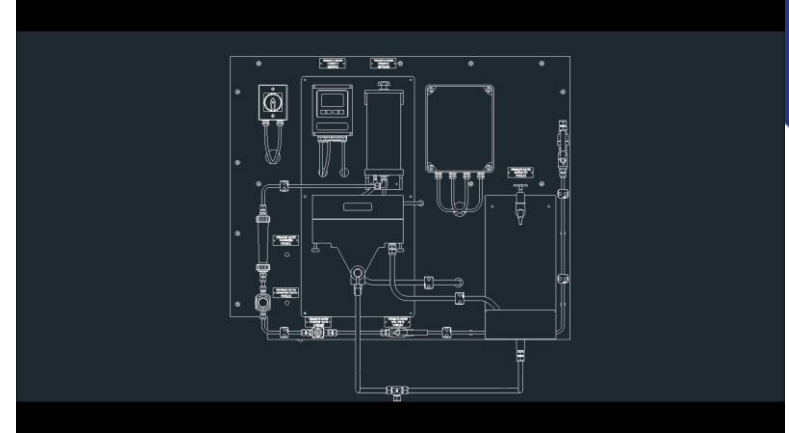
## An alternative approach

- Our Modular Transportable Treatment Units (TTU) for WTW up to 5ML/D.
- Specifically designed modular and transportable portal frame building inclusive of all process equipment.
- Process include: UF, NF, RO, Cartridge Filters, RGF/DAF, UV, Chemical Dosing, Package Pump Stations. Etc.
- Unlimited to the number of modules that can be assembled and tested and Dry and Wet commissioned off-site.



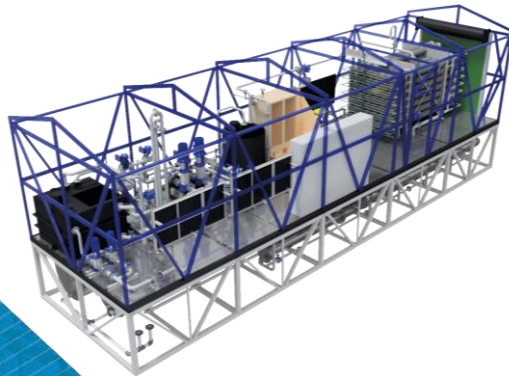
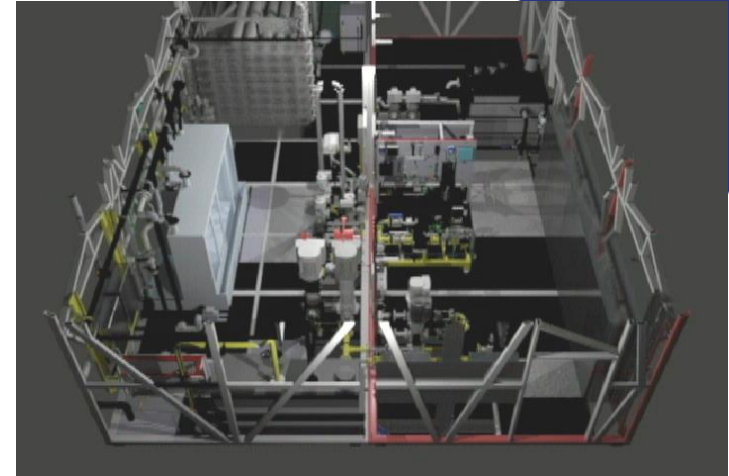
## Shared Objectives

- Consistent factory build quality from continuity and reuse of 'Agile Product' designs
  - reduced environmental impact
  - cost and programme certainty
  - improved safety performance
- Minimise impact on customers
  - minimal interventions to existing network.
- Customer satisfaction by 'right first time approach'



## Delivery Goals

- Full collaboration and supply chain integration
- Accelerated D&B period = Early Client Acceptance
- 3D/BIM modelling
  - Client Operations team walk through and evaluation
- Flexible programme prioritisation
  - based on business and customer needs
- Full responsibility for RSE products
  - 36 months product warranty



## The future

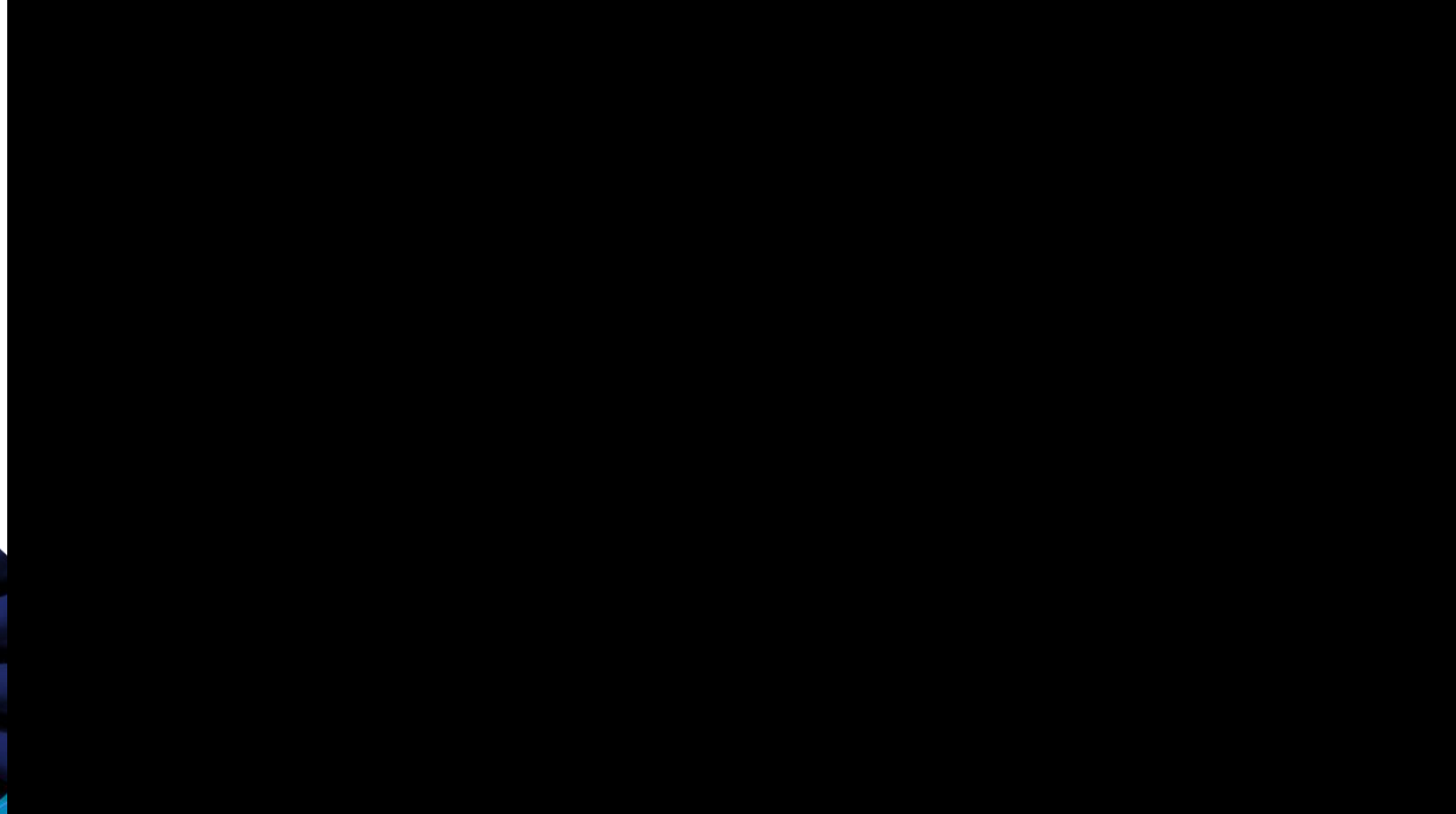
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The market is moving to more robust and ultimately safer assets driven by the high risk to the operator and the client's increased awareness.

- There will be a greater reliance on off-site modular build.
- There will be more emphasis on standard products (Mandated).
- There will be application/introduction of different process and chemicals to achieve the water quality output required.
- Greater emphasis on the way in which the overall standard product is designed & assembled with a focus on standard “Agile Standard Product” i.e. sub-assembly modular approach whereby a number of smaller individual standard products can be “plugged” into an overall project.
- Adopting the “Agile” approach with advanced manufacturing techniques will be the most efficient way to meet increasing industry demand and the affordability challenge.

## Case Study – Lochaline WTW

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Thank you

