

THE MODULAR

WATER TREATMENT

EXPERTS

Offsite Construction Show
Transportable Treatment Unit
Mark Livingston / Director Sales & Engineering

www.ross-eng.com



Business Overview

- Part of the Global Energy Group



REVENUE



EMPLOYEES



BACKING

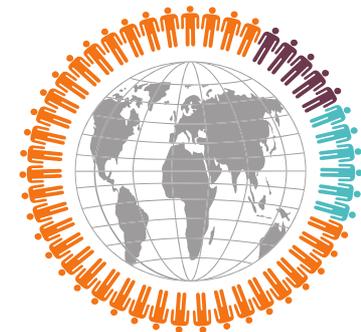


Mitsui & Co Ltd (25%)

- 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 m² manufacturing and fabrication (Over 80,000 m² available within the GEG).
- We are investing in continued growth

Employees 488

OTE, **£60m** 2017/18



Modular TTU Product Delivery Initiative

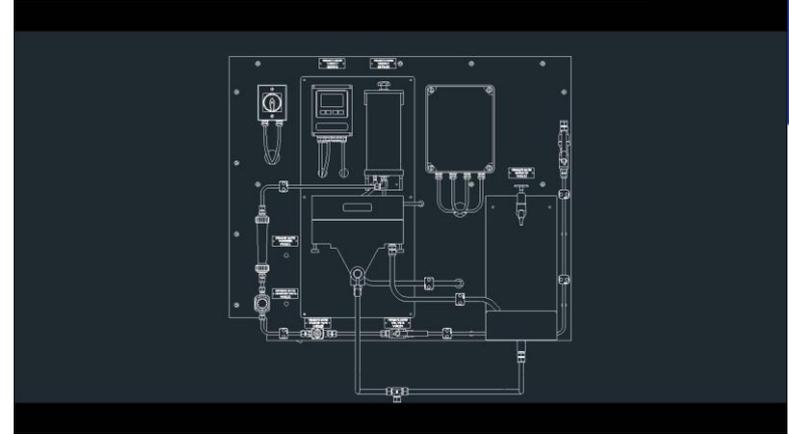
An alternative approach

- 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.



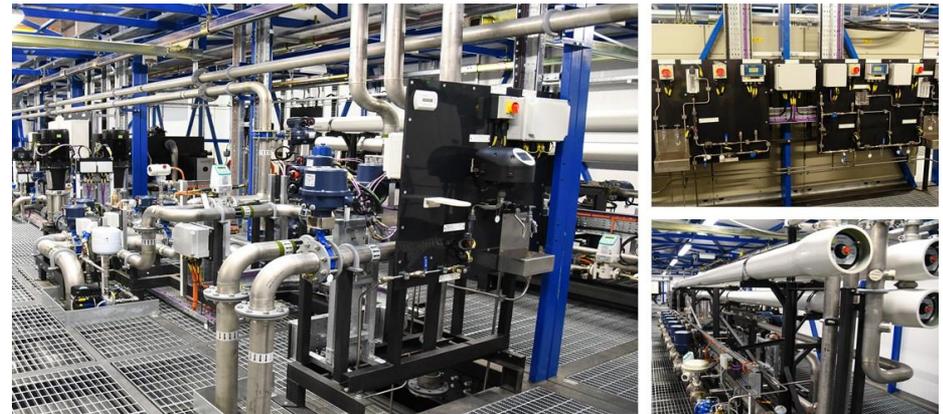
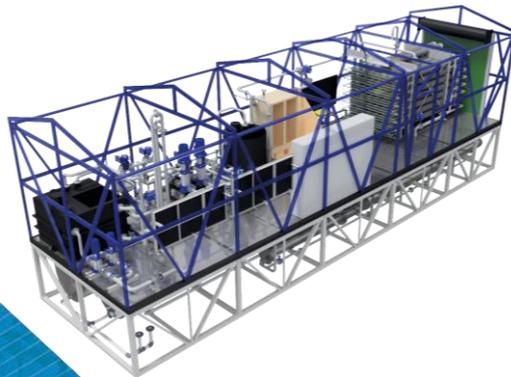
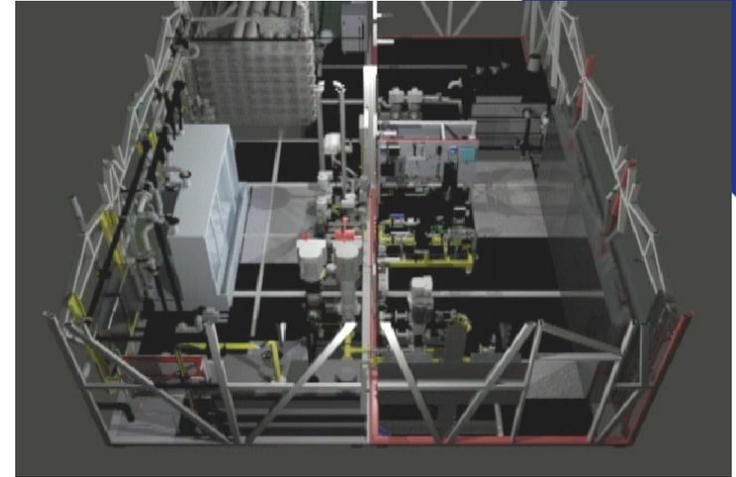
Shared Objectives

- 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

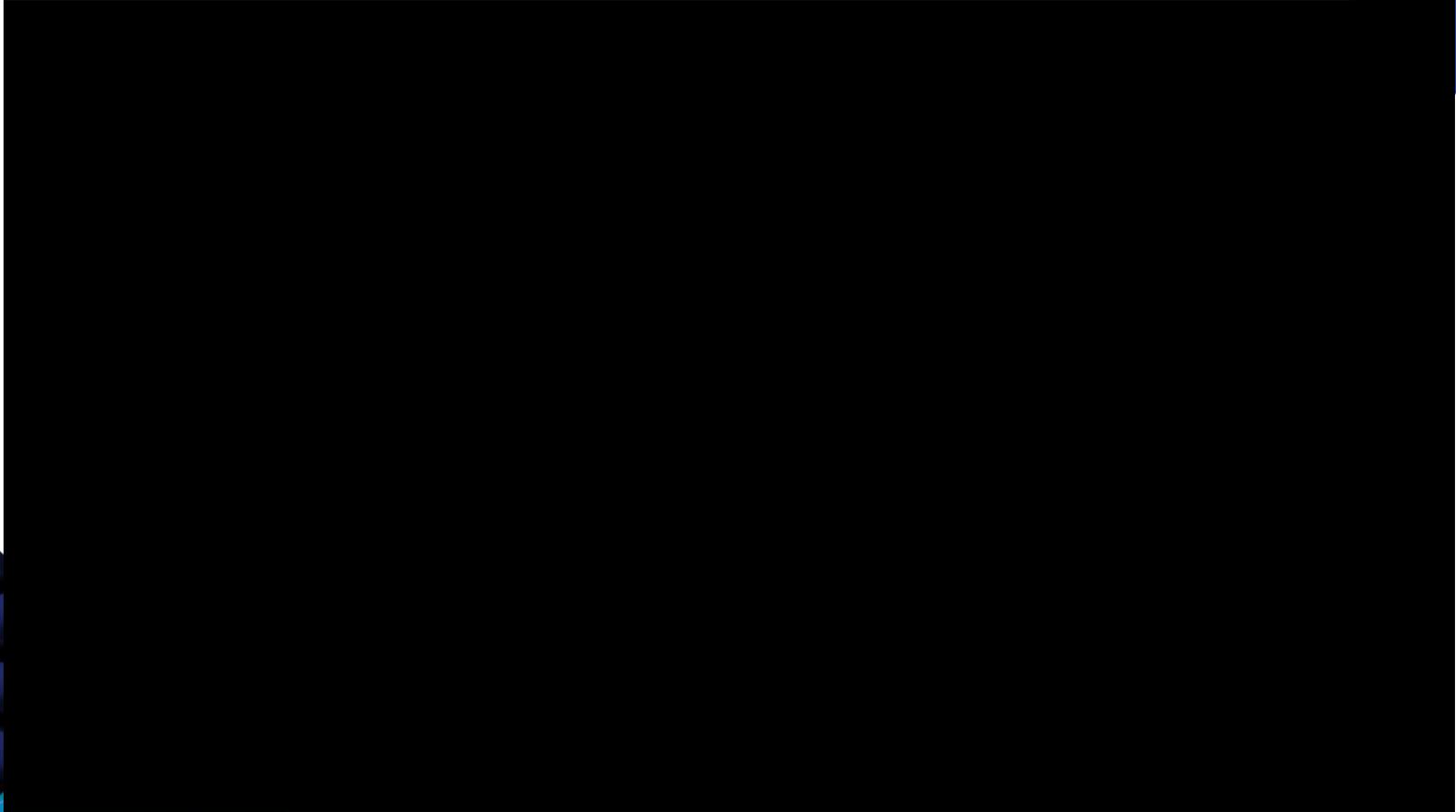


The future

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



Thank you

