HYDRO INDUSTRIES – South East Nigeria Economic Summit 2018



Brigadier (Retired) Rick Libbey



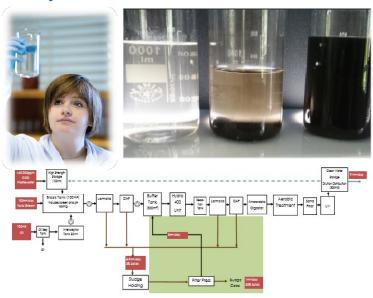
Hydro industries – Who we are?

- Hydro Industries Limited (Hydro) is a young and hungry technology company developing, designing and operating effective solutions for water treatment.
- Hydro offers end-to-end treatment solutions based on a range of specific, complimentary and modular process steps.
- These solutions are custom designed for Individual clients across a unprecedented range of industrial and drinking water applications.





Hydro Industries – USPs





- Innovators
- Agile and responsive



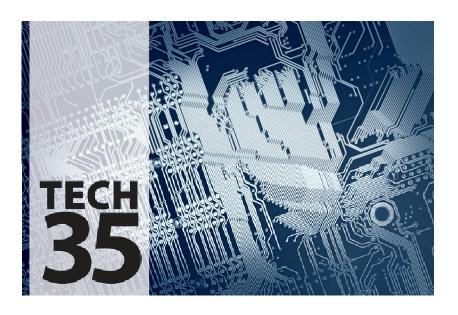


Bespoke

Total solution provider



HYDRO INDUSTRIES – RECOGNISED NATIONALLY FOR OUR DEVELOPMENT AND APPLICATION OF TECHNOLOGY





UK Tech list 2017: 35 Companies showing the best of innovation and technology in the UK economy



'PM takes leading Welsh business on tour of Africa'



Secretary of State for International Development Visits Hydro



ACQUIRED HIGH CALIBRE PARTNERS

Knowledge sharing partners





Business partners









Advisory partners









ACQUIRED REFERENCE CUSTOMERS IN KEY TARGET MARKETS

Oil & Gas



Metals & Mining











Advanced Materials



Waste



Marine



Civil Contractors





A CASE STUDY FOR ACID MINE WATER TREATMENT () —



LOCATION: RARE GROUP, SOUTH AFRICA

Hydro Industries, working alongside South African company Rare, has developed a solution to the metal problem within mine water. The solution provides a stark contrast to conventional, hazardous treatment methods. The solution, using the HydroCurrentTM technology, allows for the correction of pH and the removal of metals using a small footprint treatment system with high throughput.



HYDRO'S SOLUTION





RESULTS	RAW	ECR
Uranium	0.02 mg/l	0.0003 mg/l
Aluminium	0.263 mg/l	0.038 mg/l
Cobalt	0.6779 mg/l	0.0208 mg/l
Iron	567 mg/l	0.55 mg/l
Manganese	45.9 mg/l	0.104 mg/l
Nickel	0.648 mg/l	<0.002 mg/l
Zinc	0.031 mg/l	0.005 mg/l



A CASE STUDY FOR OIL SEPARATION ()

LOCATION: ONSHORE EXPLORATION RIG

Hydro Industries was asked to investigate the possibility of treating waste water and other liquid waste from onshore exploration wells. The target was to materially reduce the volume of water required at each site by recycling water back into the well and to reduce the environmental impact of contaminated waste water pits at the completion of drilling.

HYDRO'S SOLUTION

Hydro rapidly developed a portable, containerised solution that allows for the recycling of water from exploration wells. The unit, which contains a combination of cutting edge water treatment technologies, removes all contaminants from well water and drilling muds used during the drilling process and allows for the removal of clean, treated water from the site after drilling is completed.







Our experience in the developing world

• India





Our experience in the developing world



- Sudan (video)
 - Al Gizeera Irrigation Scheme



or



Mineral Recovery







Environmental Hazard Value to customer \$\$



Industrial Waste Water Treatment Plant – 300m3 / day



24/7 OPERATION

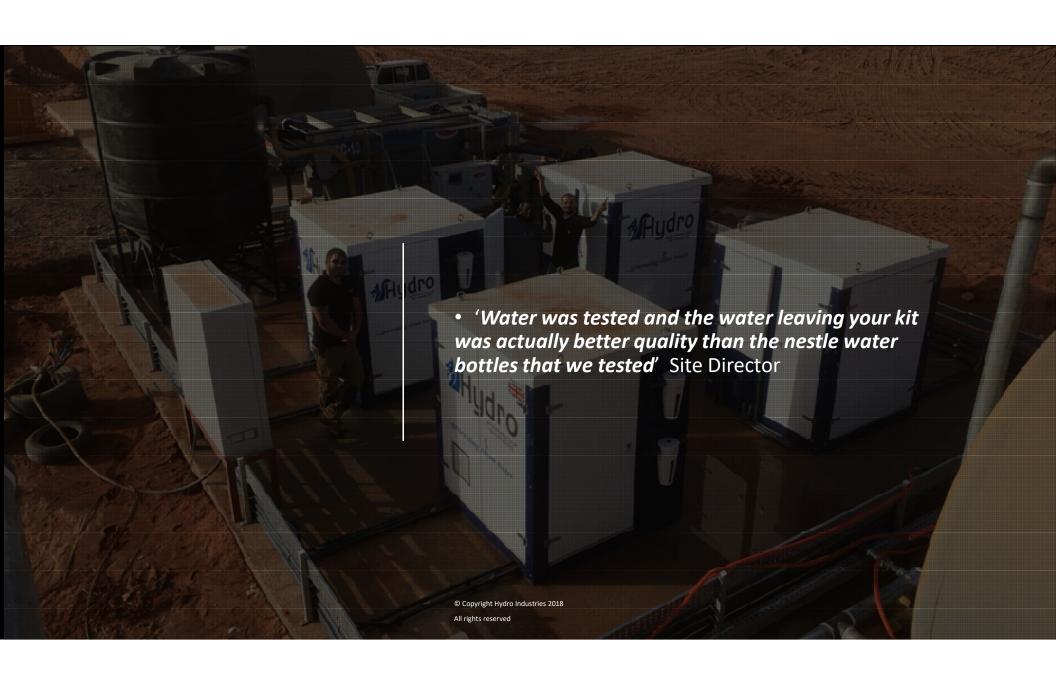




Embedded Industrial Plants



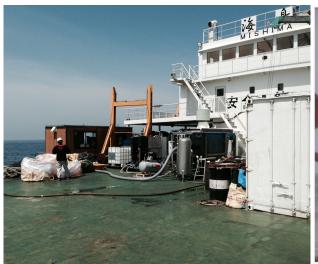
AGRICULTURE PROJECT - EGYPT





A FAMILY OF MODULAR CONTAINERISED SYSTEMS, DESIGNED, BUILT AND OPERATED BY HYDRO FOR THE OIL AND GAS INDUSTRY







T&T salvage – Japan 2017



FUNDING OPTIONS

- Nigerian regional or national Government funding
- Private sector (Nigeria) investment
- UK Government funding:
 - UKEF
 - Development Funding
 - UK Government Investment (CDC Group) –
 PPP and in country partners!
- NGO/Foundation funding

We will need to explore all options!



What would we like to offer

- Humanitarian projects WASH
 - For instance the Holy Rosary Hospital
 - Rural water provision
- Environmental Projects:
 - Industrial waste water treatment
 - Clean up operations
- Value added projects:
 - Mineral recovery
 - Water recycling

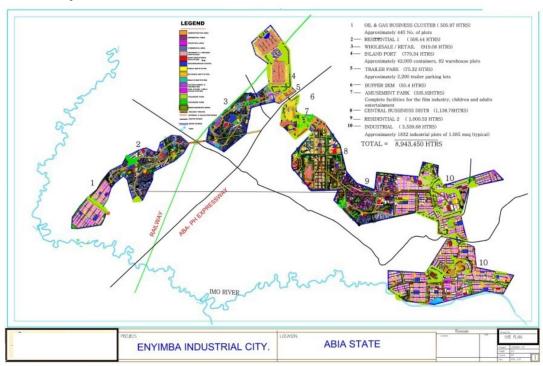
Enyimba Industrial City

Enyimba Industrial City is a Public Private Partnership (PPP) initiative under which it is proposed to develop a new Industrial Township in Aba, Nigeria.

The project area has been designated as Special Economic Zone by Federal Government of Nigeria.

Geometric Power has established a power generation facility in Aba, Nigeria, with the intention of providing high quality electric service to a limited number of large industrial and commercial clients.

Geometric Power has the franchise for power supply so offers Hydro a potential entry point as water treatment provider.



Catering for:

Oil & Gas
Wholesale / Retail
Residential
Amusement Park
Inland Port

Nigeria has the ambition to emulate the Freezones which are at the heart of Dubai's success...

A Comprehensive Approach

Modular Water Treatment





Construction



Mineral recovery





Drinking Water Treatment









Job Creation &

BSc **Training:**

Vocational

MSc Engineering PhD Chemistry

Health and wellbeing

Social Science Communication

Accounts

Industrial Waste Water Treatment



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